



## **City of Arlington Grease Interceptor, Sample Well, and Securing Device Design Specifications Revised March 2014**

### **What is a grease interceptor?**

A grease interceptor is a wastewater pretreatment device that holds or traps the grease, food solids, and oils discharged from a food service establishment prior to entering the sanitary sewer.

### **Who must have a grease interceptor?**

All establishments preparing, handling, serving, or cleaning up food must have a grease interceptor that meets City of Arlington's design and sizing specifications. For example, all restaurants, coffee shops, ice cream/snow cone shops, and child care facilities in Arlington must have a properly sized and designed grease interceptor.

### **Why are grease interceptors required?**

Fats, oils, and grease (FOG) are present in almost all foods that we eat. In the same way that fat will clog your arteries, FOG in the sewer lines will clog sewer lines. When this happens, the sewer will overflow, creating a danger to public health and the environment, and causing City of Arlington to pay thousands of dollars in fines to regulatory authorities and even more thousands of dollars for cleanup. The primary purpose of requiring wastewater pretreatment measures like grease interceptors is to prevent sanitary sewer overflows.

The City of Arlington also spends millions of dollars every year to maintain our wastewater collection system; requiring properly sized and designed grease interceptors for all food establishments is an important preventative measure that will also protect the City's wastewater collection system, reducing repair, maintenance, and replacement costs.

Additionally, the City of Arlington is required to meet wastewater discharge standards by the Trinity River Authority (TRA), which treats our wastewater at the TRA Central Wastewater Treatment Plant. Requiring properly sized and designed grease interceptors is an attempt to meet the wastewater discharge standards for FOG (200 mg/L).

### **Can I use the existing grease interceptor on site?**

If you are opening a food service establishment in an existing building, you may already have a grease interceptor that has been installed. Grease interceptors are just like any piece of equipment; over time, they begin to age and have issues. If the existing grease interceptor is not in good working condition, is grossly undersized by current standards, or plumbing fixtures are being added that would require a grease interceptor with a

larger capacity to be installed, you may need to replace the existing grease interceptor. Contact Water Resource Services at 817-459-5902 to determine if you will be able to use the existing grease interceptor.

### **What is a sample well and securing device?**

Food service establishments must install a sample well and securing device in addition to the grease interceptor.

The City of Arlington monitors wastewater samples from all food establishments, car washes, and certain permitted industrial users to make sure that the facility is not discharging abnormal wastewater that is harmful to the wastewater collection system or the wastewater treatment plant.

The sample well is a type of manhole which City of Arlington will use to collect wastewater samples from the facility. The securing device is an eyebolt set in concrete inside of a valve box top cover; City or Arlington employees will clip their sampling equipment to this securing device while taking a wastewater sample. In most cases, the sample well will be plumbed to capture all wastewater discharges from the facility, including both grease and condensate waste.

### **What is the minimum size required for grease interceptors in Arlington?**

In Arlington, grease interceptors are sized and designed in accordance with City of Arlington Ordinance #09-057 Industrial Waste and Water Pollution Control. They are sized based on total potential flow from all plumbing fixtures and drains located in any food preparation, handling, serving, or clean up area. To summarize, the grease interceptor size is determined by the number and pipe size from these plumbing fixtures and drains; the minimum size is determined based on these numbers.

Visit <http://arlingtontx.gov/water/wrs.html> to find City of Arlington's Interceptor Sizing Spreadsheet or contact Water Resource Services at 817-459-5902 and ask to get in touch with the Analyst who does plan reviews.

### **What if I want to use a type of grease interceptor that is different from the design specifications of City of Arlington?**

Contact Water Resource Services at 817-459-5902 and ask to get in touch with the Analyst who does plan reviews. Variations from the design specifications are evaluated on a case-by-case basis per City of Arlington ordinance.

### **What if I have more questions?**

Contact Water Resource Services at 817-459-5902 and ask to get in touch with the Analyst who does plan reviews. Variations from the design specifications are evaluated on a case-by-case basis per City of Arlington ordinance.

Checklist for Submitting Permit Plans for Grease Interceptors				
				Page One
If you are....	Information Required on the Plans	Yes	No	NA
Submitting Plans (All)				
	Are the plans indicative of the actual conditions on site, accurately showing all plumbing fixtures and drains that exist in the building?			
Abandoning an Existing Interceptor				
	Have you included the following note: "Cap off, backfill, and abandon existing grease interceptor or demolish it to the satisfaction of the City of Arlington Plumbing Inspector."			
Using an Existing Interceptor				
	Have you contacted Water Resource Services at 817-459-5902 and received approval?			
	Have you submitted your evaluation report signed and certified by a Licensed Master Plumber and witnessed by Water Resource Services?			
Bringing Manhole Openings to Grade				
	Are details provided on the plans for how contractor will accomplish this? Is it consistent with manufacturer's recommendations?			
	Is the following note on the plans, "Bricks, stones, or any other unapproved device shall not be used to bring manhole covers or openings to grade. Risers or other components shall not impede the manhole openings, and manhole openings shall be sealed from inflow and infiltration."			
Installing a New Grease Interceptor				
	Are all plumbing fixtures and drains from any food preparation, handling, serving, or clean up area plumbed to the grease interceptor?			
	Is the grease interceptor located on the exterior of the building?			
	Is the grease interceptor properly sized in accordance with City of Arlington ordinance? See <a href="http://arlingtontx.gov/water/wrs.html">http://arlingtontx.gov/water/wrs.html</a> for a sizing spreadsheet.			
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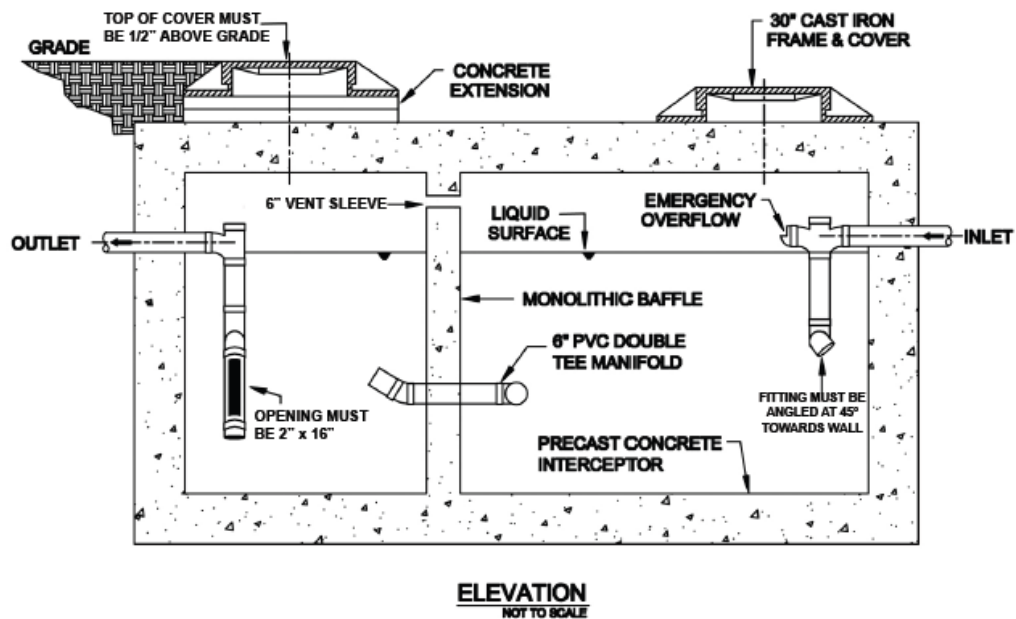
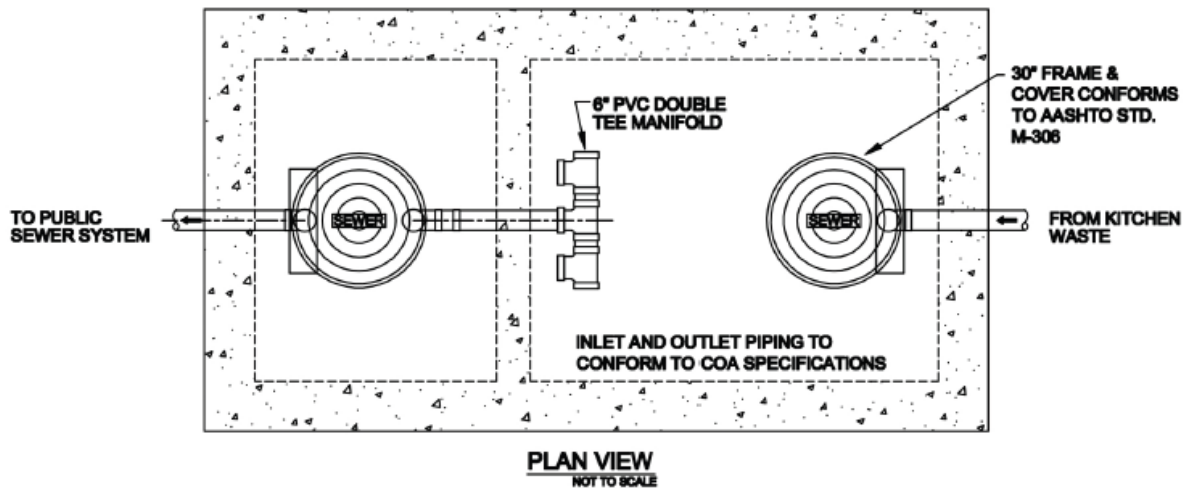
Checklist for Submitting Permit Plans for Grease Interceptors				
				Page Two
If you are....	Information Required on the Plans	Yes	No	NA
Installing a New Grease Interceptor (Continued)				
	Have you provided the top and side view details for the grease interceptor that match Appendix A of this document?			
	Have you provided the inlet and outlet sanitary tee details that match Appendix B of this document?			
	Have you indicated that the interceptor shall be designed, constructed, and installed for adequate load bearing capacity?			
	Have you made the following note on the plans: "The interceptor manhole covers shall be sealed from inflow and infiltration, are at least 30 inches in diameter, meet or exceed AASHTO standard M-306 for load-bearing, and will be equivalent to an East Jordan Ironworks V-1432, a Sigma Foundry MH1675, or a Certainteed PAMREX 32"? (See Appendix C for examples of interceptor manhole details)			
Installing a New Sample Well				
	Is the sample well plumbed to receive all discharges from the building, or have you received approval from Water Resource Services to have the sample well plumbed to capture wastewater from the interceptor only?			
	Are you using or do you have a note that the sample well design is equivalent to a Park Equipment Company SWB-1? (Also acceptable: PW Eagle WAC-15 or CSC-15; Schier Foglifter; Oldcastle Standard Sample Well; Others as Requested)			
	Have you provided details for the sample well to be used for this project? (See Appendix D for examples of sample well details)			
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## Checklist for Submitting Permit Plans for Grease Interceptors

Page Three

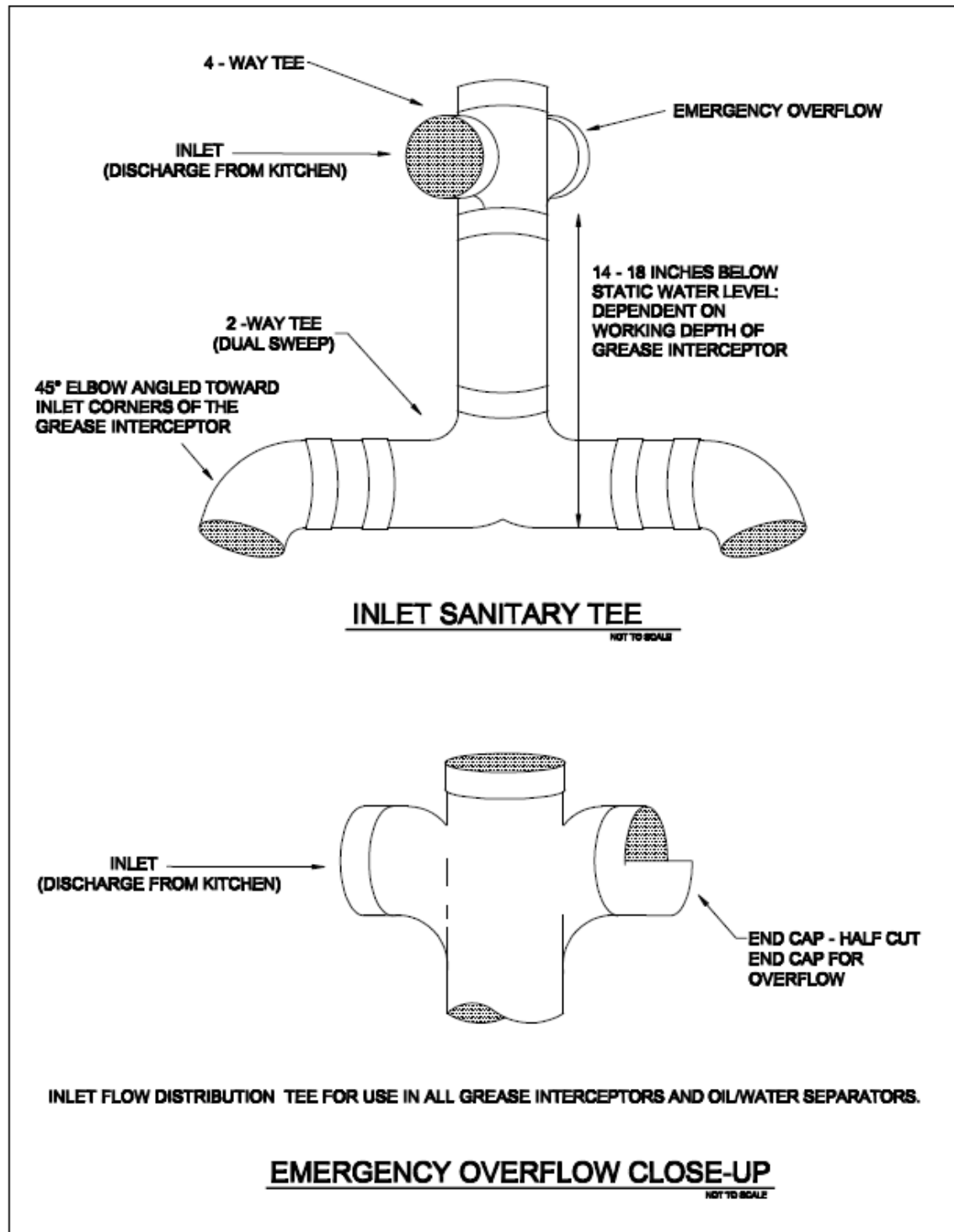
If you are....	Information Required on the Plans	Yes	No	NA
<b>Installing a New Sample Well (Continued)</b>				
	Does the sample well have a minimum diameter of 15 inches?			
	Have you made the following note on the plans: "The sample well shall not be installed in a location where it will be obstructed by vehicles, dumpsters, or any other object at any time"?			
	If the sample well is located in an area that may accept vehicle traffic, have you made a note that "the sample well covers meet or exceed AASHTO standard M-306 for load bearing"?			
<b>Installing a New Securing Device</b>				
	Have you made the following note on the plans: "The securing device must consist of a valve box top section, with an eye bolt mounted in concrete"?			
	Have you indicated on the plans that the securing device construction must be equivalent to a Bass & Hays 340-1? (See Appendix E for securing device details)			
	Have you indicated on the plans that the securing device is located within two feet of the sample well?			
	Have you made the following note on the plans: "The securing device shall not be installed in a location where it will be obstructed by vehicles, dumpsters, or any other object at any time"?			
<b>Installing a Sump Pump</b>				
	If the sump pump is located on the grease waste line, is the sump pump located downstream of the grease interceptor?			
<i>*This checklist is to be used a general guide to help ensure the completeness of your plan submittal and is not inclusive of all information that may be required to receive approval for your permit from Water Resource Services.*</i>				

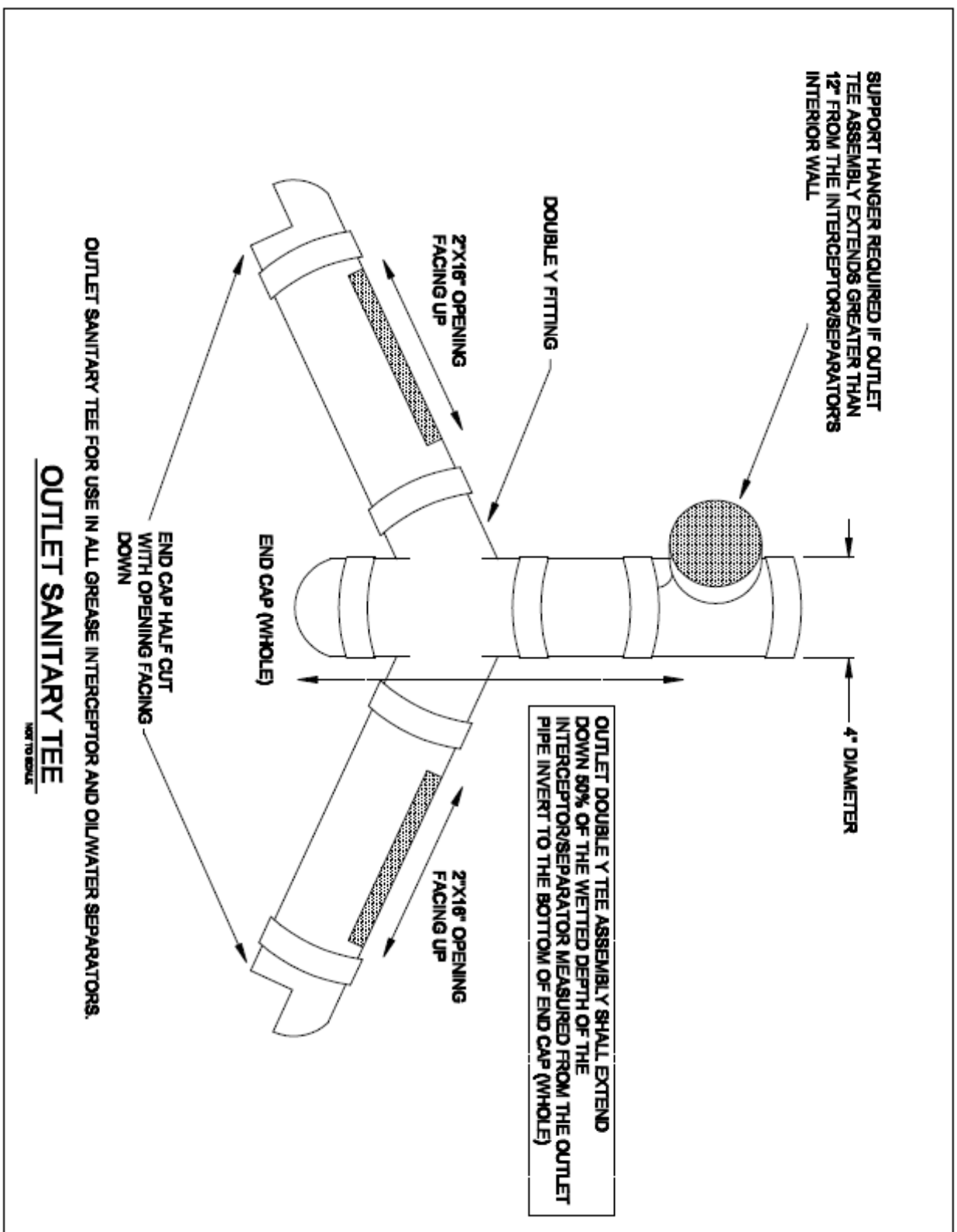
## Appendix A: Grease Interceptor Design Specifications—Top and Side View Cutaway Details



SEE INLET/OUTLET TEE DRAWINGS FOR SPECIFIC DESIGN CRITERIA.

**Appendix B:**  
**Grease Interceptor Design Specifications—Inlet and Outlet Sanitary Tee Details**







## Appendix C: Interceptor Manhole Cover Detail Examples

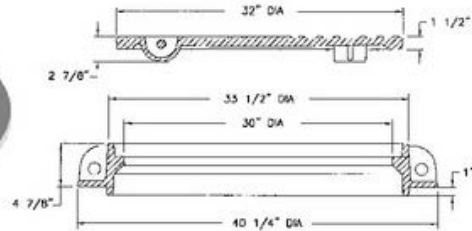
East Jordan Ironworks V-1432 Details:

### V-1432 FRAME & COVER



Heavy duty  
Machined bearing surfaces

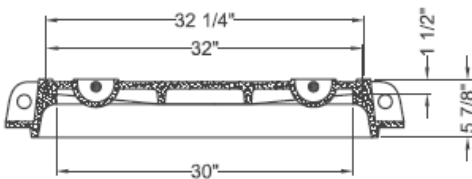
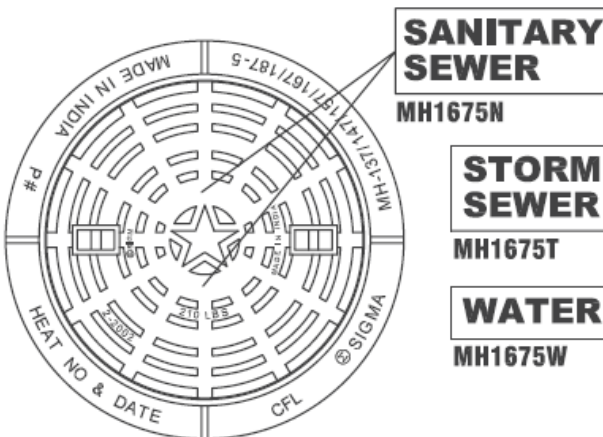
Options:  
Custom logo covers  
Special lettered covers  
Watertite assembly  
Adjusting risers  
Grates  
Pick slots



V-3419  
Approx. 346 sq. in  
open area

Sigma Foundry MH1675 Details:

## MH1675



Weight: 430 lbs.

Certainteed PAMREX 32" Details:



**PAMREX 32"**

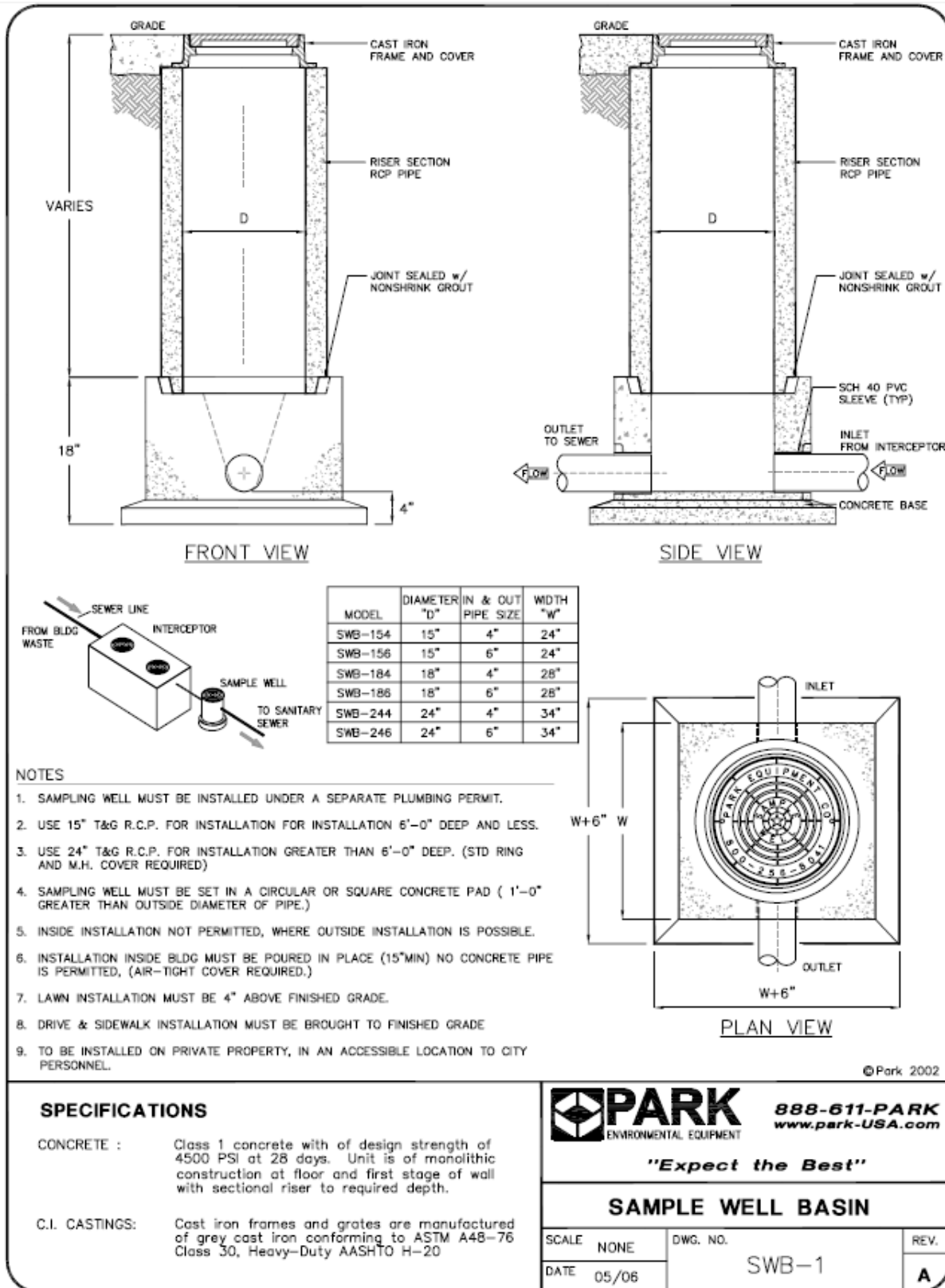
provides easy opening, while continuing to offer the high performance levels of the successful PAMREX 24" and 28" clear opening designs. The 32" clear opening enables maintenance personnel to enter the manhole with their safety equipment, or to lower bulky equipment into the below-ground network.

- Gas-arm for assisted opening and closing can be installed in plant only. Please consult your sales representative.

- |   |  |
|---|--|
| <ul style="list-style-type: none"><li>• Opens to 130°, blocks at 90° when closing</li><li>• Elastomer gasket</li><li>• H2O load rated</li></ul> | <ul style="list-style-type: none"><li>• Infiltration plug</li><li>• Double hinge</li><li>• Lifting loops integral to frame</li><li>• Locking devices</li></ul> |
|---|--|

BADGINGS	REFERENCES	DIMENSIONS (IN)			MASS (LBS)	
		A	O	H	COVER	TOTAL
Standard (none)	CDPA80EH	39-1/2	31-1/2	5	162	269
Sewer	CDPA80EHSEW					
Sanitary sewer	CDPA80EHSSE					
Drain	CDPA80EHDRA					

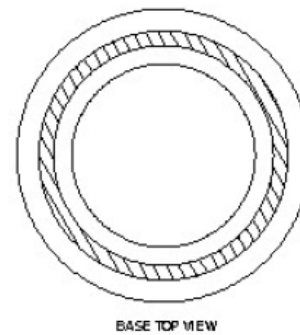
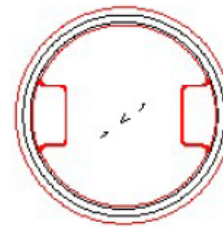
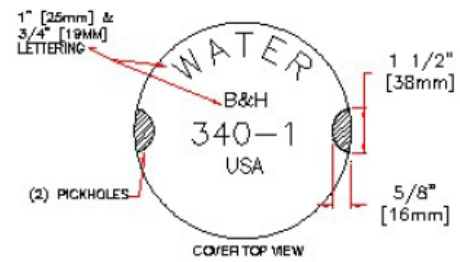
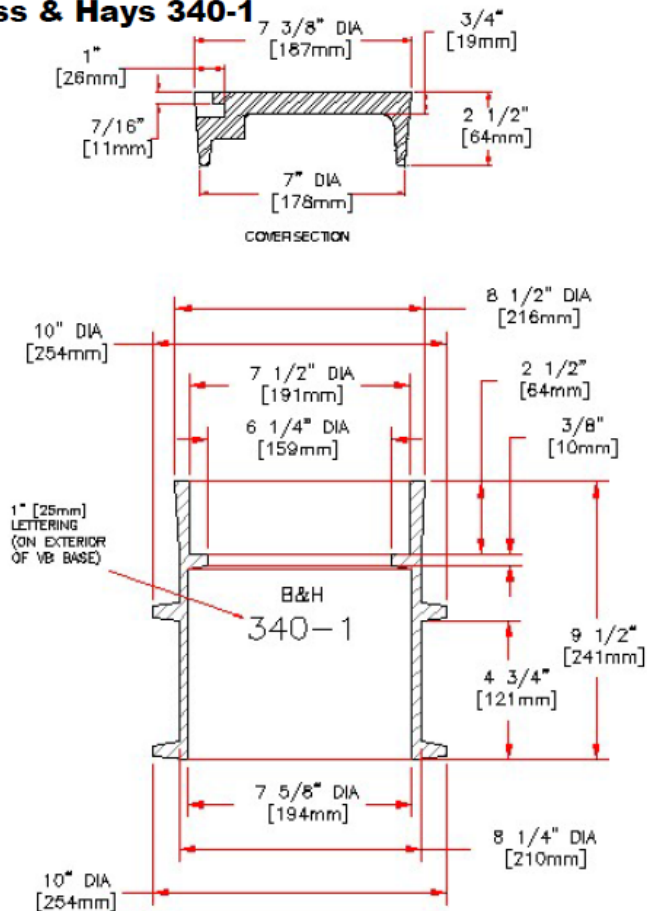
## Appendix D: Example of Sample Well Details



## Appendix E: Example of Securing Device Top Cover Details

### SECURING DEVICE

#### Bass & Hays 340-1



B&H 340-1  
 BASE: 29 LBS 13kg  
 COVER: 12 LBS 5kg  
 SET 41 LBS 18kg